IMMUNOLOGY

CONTENTS

Vol. 64 No. 1 May 1988

Review paper

V. Bocci: Roles of interferon produced in physiological conditions. A speculative review 1

S. Mecheri, W. Mourad, J. Lapeyre, M. Jobin, B. David & J. Hébert: Demonstration of idiotypes expressed on basophil-bound IgE antibodies by using anti-idiotype-induced histamine release in grass pollen-allergic patients 11

A. Bond, A. Cooke & R. C. Hay: Heterogeneity in rheumatoid factor isotypes and specificities in MRL mice 17

N. D. Doble, J. P. Banga, R. Pope, E. Lalor, P. Kilduff & A. M. McGregor: Autoantibodies to the thyroid microsomal/thyroid peroxidase antigen are polyclonal and directed to several distinct antigenic sites 23

B. Jachez, E. Montecino-Rodriguez, P. Fonteneau & F. Loor: Partial expression of the lpr locus in the heterozygous state: presence of autoantibodies 31

F. A. Spring, R. Dalchau, G. L. Daniels, G. Mallinson, P. A. Judson, S. F. Parsons, J. W. Fabre & D. J. Anstee: The In^a and In^b blood group antigens are located on a glycoprotein of 80,000 MW (the CDw44 glycoprotein) whose expression is influenced by the *In(Lu)* gene 37

A. E. E. Ahmed & K. Whaley: Purification of a plasma protein that inhibits complement-mediated prevention of immune precipitation 45

M. Raulf & W. König: Modulation of leukotriene release from human polymorphonuclear leucocytes by PMA and arachidonic acid 51

I. N. Mbawuike & H. B. Herscowitz: Relationship between ineffective antigen presentation by murine alveolar macrophages and their immunosuppressive function 61

I. I. Angunawela: The effects of immunosuppression on the development of (experimental) cataract 69

S. K. Oh, S. Ross, J. Walker & S. Zeisel: Role of a SER immune suppressor in immune surveillance 73

M. L. Neale, R. A. Fiera & N. Matthews: Involvement of phospholipase A2 activation in tumour cell killing by tumour necrosis factor 81

A. Hayward, A. Boylston & P. Beverley: Lysis of CD3 hybridoma targets by cloned human CD4 lymphocytes 87

T. Koizumi, Y. Nakao, T. Matsui, Y. Katakami, K. Mihara, R. Takahashi, S. Maeda, T. Sugiyama & T. Fujita: *C-myc* expression in lymphocytes of MRL/MP-lpr mice activated by A23187 and TPA 93

I. G. Parkin, J. J. T. Owen & E. J. Jenkinson: Proliferation of thymocytes in relation to T-cell receptor β-chain expression 97

M. Larché, J. R. Lamb & M. A. Ritter: A novel T-lymphocyte molecule that may function in the induction of self-tolerance and MHC-restriction within the human thymic microenvironment 101

W. Hirose & T. F. Davies: Generation of thyroglobulin-specific T-cell clones derived from F_1 Fisher rats 107

S. Yanoma, I. Aoki, N. Ishii, K. Tani, C. S. David & K. Okuda: The role of autoreactive T-cell hybridomas from autoimmune model mice 113

L. D. Williams, W. R. McMaster & H.-S. Teh: Antigen-independent activation of cytotoxic T cells by lymphokines 121

J. A. Garcia-Sanz, F. Velotti, H. R. Macdonald, D. Masson, J. Tschopp & M. Nabholz: Appearance of granule-associated molecules during activation of cytolytic T-lymphocyte precursors by defined stimuli 129

A. G. Lamont, M. G. Bruce, K. C. Watret & A. Ferguson: Suppression of an established DTH response to ovalbumin in mice by feeding antigen after immunization 135

A. McI. Mowat, A. G. Lamont & D. M. V. Parrott: Suppressor T cells, antigen-presenting cells and the role of I-J restriction in oral tolerance to ovalbumin 141

T. Yoshio, K. Saito, F. L. Adler & L. T. Adler: A role for mature B cells in bone marrow transplantation 147

S. L. Tonkonogy & S. L. Swain: Stimulation of gut-associated lymphoid cells by IL-4 and B-cell growth factor II 155

M. K. Busterbosch, J. B. Mclaughlin, M. Holman & G. G. B. Klaus: Activation and proliferation signals in mouse B cells. IX. Protein kinase *C* activators synergize with non-mitogenic anti-immunoglobulin antibodies to drive B cells into G1 163

P. B. Parab, G. R. Rajasekariah, R. Chandrashekar, S. S. Alkan, D. G. Braun & D. Subrahmanyam: Characterization of a monoclonal antibody against infective larvae of *Brugia malayi* 169

W. G. Butscher & G. M. Faubert: The therapeutic action of monoclonal antibodies against a surface glycoprotein of *Giardia muris* 175

Brief communication

H. C. O'Neill & C. R. Parish: Monosaccharide inhibition of cytotoxic T-cell function: demonstration of clone-specific effects 181

Book reviews 185

Vol. 64 No. 2 June 1988

A. Celada: Immune-complex inhibition of macrophage activation is not due to an interaction with the binding or processing of IFN-γ 187

N. YOUSAF, J. C. HOWARD & B. D. WILLIAMS: Studies in the rat of antibody-sensitized and *N*-ethylmaleimide-treated erythrocyte clearance by the liver: effects of immune complex infusion and complement activation 193

M. ALBRECHTSEN, G. R. YEAMAN & M. A. KERR: Characterization of the IgA receptor from human polymorphonuclear leucocytes 201

A. GORTER, P. S. HIEMSTRA E. A. VAN DER VOORT, L. A. VAN ES & M. R. DAHA: Binding of human IgA1 to rat peritoneal macrophages 207

A. HUGHES, J. H. BROCK, D. M. V. PARROTT & F. COCKBURN: The interaction of infant formula with macrophages: effect on phagocytic activity, relationship to expression of class II MHC antigen and survival of orally administered macrophages in the neonatal gut 213

P. MAESTRELLI, J.-J. TSAI, O. CROMWELL & A. B. KAY: The identification and partial characterization of a human mononuclear cell-derived neutrophil chemotactic factor apparently distinct from IL-1, IL-2, GM-CSF, TNF and IFN-γ 219

C. A. W. BATE, J. TAVERNE & J. H. L. PLAYFAIR: Malarial parasites induce TNF production by macrophages 227

S. ROY, L. FITZ-GIBBON, L, POULIN & M. A. WAINBERG: Infection of human monocytes/macrophages by HIV-1: effect on secretion of IL-1 activity 233

A. FERRANTE & B. ROWAN-KELLY: The role of antibody in immunity against experimental naegleria meningoencephalitis ('amoebic meningitis') 241

M. LOCNISKAR, A. ZUMLA, D. W. MUDD, D. A. ISENBERG, W. WILLIAMS & K. P. W. J. MCADAM: Human monoclonal antibodies to phenolic glycolipid-1 derived from patients with leprosy, and production of specific anti-idiotypes 245

E. TAYLOR, C.-A. JODOUIN & M. RICHTER: Cells involved in the immune response. XXXVI. The thymic antigen-specific suppressor cell in the immunized rabbit is a T cell with receptors for FcG and the antigen and it acts, via a secreted suppressor factor, directly on the immune splenic AFC B cell to inhibit antibody secretion 253

Y. NAKANO: Non-specific regulatory mechanisms of contact sensitivity: the requirement of intermediate cells for non-specific suppressor factor (NSF) activity 261

F. J. DUMONT, R. G. E. PALFREE & P. A. FISHER: The T-cell activating protein (TAP) is up-regulated by endogenous IFN-γ in activated T cells 267

E. PELOSI-TESTA, P. SAMOGGIA, G. GIANNELLA, E. MONTESORO, T. CARAVITA, G. SALVO, A. CAMAGNA, G. ISACCHI, U. TESTA & C. PESCHLE: Mechanisms underlying T-lymphocyte activation: mitogen initiates and IL-2 amplifies the expression of transferrin receptors via intracellular iron level 273

M.-A. GOUGEROT-POCIDALO, M. FAY, Y. ROCHE & S. CHOLLET-MARTIN: Mechanisms by which oxidative injury inhibits the proliferative respone of human lymphocytes to PHA. Effect of the thiol compound 2-mercaptoethanol 281

J. L. EBERSOLE, M. J. STEFFEN & J. PAPPO: Secretory immune responses in ageing rats. II. Phenotype distribution of lymphocytes in secretory and lymphoid tissues 289

J. PAPPO, J. L. EBERSOLE & M. A. TAUBMAN: Phenotype of mononuclear leucocytes resident in rat major salivary and lacrimal glands 295

S. MARTIN, K. MARUTA, V. BURKART, S. GILLIS & H. KOLB: IL-1 and IFN-γ increase vascular permeability 301

J. J. PRUZANSKY & R. PATTERSON: Limiting concentrations of human basophil-bound IgE antibody required for histamine release 307

S. J. THOMPSON, H. J. WHITLEY, J. D. NAYSMITH & F. CARSWELL: IgE antibodies in *D. pteronyssinus* in atopic patients 311

N. KAMADA, R. SUMIMOTO, A. BAGUERIZO, A. YOSHIMATSU, K. TERAMOTO & A. YAMAGUCHI: Mechanisms of transplantation tolerance induced by liver grafting in rats: involvement of serum factors in clonal deletion 315

Y. EISGI & P. MCCULLAGH: Acquisition of immunological self-recognition by the fetal rat 319

A. BOND, F. C. HAY & A. COOKE: The relationship between induced and spontaneous autoantibodies in MRL mice: the role of Ly-1 B cells? 325

L. A. TERRY, M. H. BROWN & P. C. L. BEVERLEY: The monoclonal antibody, UCHL1, recognizes a 180,000 MW component of the human leucocyte-common antigen, CD45 331

J. LIROCHON, C. DOINEL, P. ROUGER, D. GOOSSENS & C. SALMON: Biochemical identification and characterization of the G antigen in the G antigen in the human blood group Rh 337

S. DENHAM & J. G. HALL: Studies on the adjuvant action of beryllium. III. The activity in the plasma of lymph efferent from nodes stimulated with beryllium 341

J. G. HALL: Studies on the adjuvant action of beryllium. IV. The preparation of beryllium containing macromolecules that induce immunoblast responses *in vivo* 345

A. M. LACKIE U. G. R. VASTA: The role of galactosyl-binding lectin in the cellular immune response of the cockroach *Periplaneta americana* (Dictyoptera) 353

Book reviews 359

Books received for review 361

Vol. 64 No. 3 July 1988

M. KOMATSU, K. YAMAMOTO, Y. NAKANO, M. NAKAZAWA, A. OZAWA, H. MIKAMI, M. TOMITA & S. MIGITA: Hereditary C3 hypocomplementemia in the rabbit 363

T. FUJITA, Y. SHINKAI, T. INOUE & N. TAMURA: Purification and characterization of decay-accelerating factor (DAF) from Raji cells 369

M. R. DAHA, A. GORTER, P. J. C. LEIJH, N. KLAR & L. A. VAN ES: Binding and catabolism of aggregated immunoglobulins bearing C3b or iC3b by U937 cells 375

L. VARGA, E. THIRY & G. FÜST: BSA–anti-BSA immune complexes formed in the presence of human complement do not bind to autologous red blood cells 381

U. BRUDERER, R. AEBERSOLD, K. BLASER & C. H. HEUSSER: Characterization of the Group I and Group II antibody response against PC-KLH in normal and T15 idiotype-suppressed BALB/c mice 385

M. G. Steele & G. A. Leslie: IgD antibodies to DNP are specifically induced in ascitic fluid after intraperitoneal immunization 391

W. N. Bartholomaeus, H. O'Donoghue, D. Foti, C. M. Lawson, G. R. Shellam & W. D. Reed: Multiple autoantibodies following cytomegalovirus infection: virus distribution and specificity of autoantibodies 397

O. E. Campetella, H. A. Barrios & N. V. Galassi: Suppressor T-cell population induced by Junin virus in adult mice 407

G. Essery, M. Feldmann & J. R. Lamb: Interleukin-2 can prevent and reverse antigen-induced unresponsiveness in cloned human T lymphocytes 413

T. A. Poulton, A. Gallagher, R. C. Potts & J. Swanson Beck: Changes in activation markers and cell membrane receptors on human peripheral blood T lymphocytes during cell cycle progression after PHA stimulation 419

E. A. Macintyre, P. E. R. Tatham, R. Abdul-Gaffar & D. C. Linch: The effects of pertussis toxin on human T lymphocytes 427

H. Wagner & K. Heeg: Two distinct signals regulate induction of IL-2 responsiveness in $CD8^+$ murine T cells 433

P. De Berardinis, M. Londei, S. Carrel & M. Feldmann: Regulation of clonal growth by anti-T-cell receptor antibody-directed lysis 439

S. Kiesel, A. Pezzutto, R. Haas, G. Moldenhauer & B. Dörken: Functional evaluation of CD19- and CD22-negative variants of B-lymphoid cell lines 445

G. M. Taylor, H. Haigh, A. Williams, S. W. d'Souza & R. Harris: Down's syndrome lymphoid cell lines exhibit increased adhesion due to the over-expression of lymphocyte function-associated antigen (LFA-1) 451

R. K. Saxena, Q. B. Saxena & W. H. Adler: Lectin-induced cytotoxic activity in spleen cells from young and old mice. Age-related changes in types of effector cells, lymphokine production and response 457

E. Houssaint & M.-M. Hallet: Inability of adult circulating haemopoietic stem cells to sustain haemopoiesis in mouse fetal liver microenvironment 463

W. R. Hein & A. Supersaxo: Effect of interferon-alpha-2a on the output of recirculating lymphocytes from single lymph nodes 469

T. C. Moore, C. H. Spruck & S. I. Said: Depression of lymphocyte traffic in sheep by vasoactive intestinal peptide (VIP) 475

K. L. Philpott, S. Rastsan, S. Brown & A. L. Mellor: Expression of H-2 class I genes in murine extra-embryonic tissues 479

B. A. Fiedel: Influence of tuftsin-like synthetic peptides derived from C-reactive protein (CRP) on platelet behaviour 487

O. Silvennoinen: Purified human NK cells do not function as accessory cells in T-cell proliferative responses 495

L. N. Islam & P. C. Wilkinson: Chemotactic factor-induced polarization, receptor redistribution, and locomotion of human blood monocytes 501

J. Brom, W. Schönfeld & W. König: Metabolism of leukotriene B_4 by activated human polymorphonuclear granulocytes 569

Y. H. Atkinson, A. F. Lopez, W. A. Marasco, C. M. Lucas, G. G. Wong, G. F. Burns & M. A. Vadas: Recombinant human granulocyte–macrophage colony-stimulating factor (rH GM-CSF) regulates f Met-Leu-Phe receptors on human neutrophils 519

J. W. Coleman: A kinetic analysis of the *in vitro* sensitization of murine peritoneal mast cells with monoclonal IgE anti-DNP antibody 527

R. Troncone & A. Ferguson: In mice, glutin in maternal diet primes systemic immune responses to gliadin in offspring 533

R. Pabst, M. Geist, H. J. Rothkötter & F. J. Fritz: Postnatal development and lymphocyte production of jejunal and ileal Peyer's patches in normal and gnotobiotic pigs 539

S.-S. Chiou, K. Yamauchi, T. Nakanishi & H. Obata: Nature of immunological non-responsiveness to hepatitis B vaccine in healthy individuals 545

H. M. Etlinger, E. P. Heimer, A. Trzeciak, A. J. Felix & D. Gillessen: Assessment in mice of a synthetic peptide-based vaccine against the sporozoite stage of the human malaria parasite, *P. falciparum* 551

Brief communication

C. Kroegel, T. Yukawa, G. Dent, P. Chanez, K. F. Chung & P. J. Barnes: Platelet-activating factor induces eosinophil peroxidase release from purified human eosinophils 559

Book reviews 563

Announcements 565

Vol. 64 No. 4 August 1988

N. R. Parry, A. Syred, D. J. Rowlands & F. Brown: A high proportion of anti-peptide antibodies recognize foot-and-mouth disease virus particles 567

H. S. Kim & H. F. Deutsch: Variable-region sequence homologies of human κ-chains with idiotypic serologic similarites 573

T. F. Schulz, W. Vogetseder, M. Mitterer, G. Böck, J. P. Johnson & M. P. Dierich: Individual epitopes of an 85,000 MW membrane adherence molecule are variably expressed on cells of different lineage 581

D. Levitt: Naturally ocurring mouse antibodies against T-cell-secreted chondroitin sulphate proteoglycan 587

D. Delia, C. Traversari, D. Ballinari, G. Cattoretti, E. Fontanella, N. Polli & G. Della Porta: Early lymphocyte activation molecule defined by the monoclonal antibody MLR-3: biochemical and functional studies 593

W.-R. Lie, M. F. Rothschild & C. M. Warner: Preparation and characterization of murine monoclonal antibodies to swine lymphocyte antigens 599

R. C. Bhagyam, D. Jarret-Zaczek & F. G. Ferguson: Activation of swine peripheral blood lymphocytes with human recombinant interleukin-2 607

E. Meeusen, M. D. Gorrell & M. R. Brandon: Presence of a distinct $CD8^+$ and $CD5^-$ leucocyte subpopulation in the sheep liver 615

W. R. Hein, J. N. Shelton, M. W. Simpson-Morgan & B. Morris: Traffic and proliferative responses of recirculating lymphocytes in fetal calves 621

R. E. O'Hehir, D. D. Eckels, A. J. Frew, A. B. Kay & J. R. Lamb: MHC class II restriction specificity of cloned human T lymphocytes reactive with *Dermatophagoides farinae* (house dust mite) 627

V. K. Kuchroo, T. Noma, M. Minami & M. E. Dorf: Down-regulation of suppressor cell induction 633

M. Holly, Y.-S. Lin & T. J. Rogers: Induction of suppressor cells by staphylococcal enterotoxin B: identification of a suppressor cell circuit in the generation of suppressor-effector cells 643

P. G. Holt, U. R. Kees, M. A. Schon-Hegrad, A. Rose, J. Ford, N. Bilyk, R. Bowman & B. W. S. Robinson: Limiting-dilution analysis of T cells extracted from solid human lung tissue: comparison of precursor frequencies for proliferative responses and lymphokine production between lung and blood T cells from individual donors 649

A. A. Czitrom, T. S. Axelrod & B. Fernandes: Granulocyte precursors are the principal cells in bone marrow that stimulate allospecific cytolytic T-lymphocyte responses 655

K.-I. Ando, K.-I. Isobe, T. Hasegawa, T. Iwamoto, R.-N. Ding, J. Rahman, Y. Muro, T. Yoshida, F. Nagase, K. Kawashima, M. Ohashi & I. Nakashima: Genetic and stimulator cell requirements for generation and activation of minor histocompatibility antigen-specific memory cytotoxic T-lymphocyte precursors 661

K. Taniguchi, Y.-I. Kawano & K. Nomoto: AK cells were developed from NK cells during *in vitro* culture of allogeneic or F_1 anti-parental stimulation: functional conversion in recognizing H-2 expression of target cells accompanied by phenotypical conversion 669

C. C. W. Hughes, D. K. Male & P. L. Lantos: Adhesion of lymphocytes to cerebral microvascular cells: effects of interferon-γ, tumour necrosis factor and interleukin-1 677

K. G. Stünkel, P. Theisen, A. Mouzaki, T. Diamantstein & H. D. Schlumberger: Monitoring of interleukin-2 receptor (IL-2R) expression *in vivo* and studies on an IL-2R-directed immunosuppressive therapy of active and adoptive adjuvant-induced arthritis in rats 683

D. L. Schmucker, C. K. Daniels, R. K. Wang & K. Smith: Mucosal immune response to cholera toxin in ageing rats. I. Antibody and antibody-containing cell response 691

D. W. McGee & D. N. McMurray: Protein malnutrition reduces the IgA immune response to oral antigen by altering B-cell and suppressor T-cell functions 697

A. Gorter, P. S. Hiemstra, N. Klar-Mohamad, L. A. van Es & M. R. Daha: Binding, internalization and degradation of soluble aggregates of human secretory IgA by resident rat peritoneal macrophages 703

D. L. Gordon & J. L. Rice: Opsonin-dependent and -independent surface phagocytosis of *S. aureus* proceeds independently of complement and complement receptors 709

F. H. Valone, R. Philip & R. J. Debs: Enhanced human monocyte cytotoxicity by platelet-activating factor 715

Y. Katakami, Y. Nakao, T. Koizumi, N. Katakami, R. Ogawa & T. Fujita: Regulation of tumour necrosis factor production by mouse peritoneal macrophages: the role of cellular cyclic AMP 719

H. A. Molina & F. Kierszenbaum: Immunohistochemical detection of deposits of eosinophil-derived neurotoxin and eosinophil peroxidase in the myocardium of patients with Chagas' disease 725

K. T. Nouri-Aria, S. Magrin, G. J. M. Alexander, M. G. Anderson, R. Williams & A. L. W. F. Eddleston: Abnormal T-cell activation in chronic hepatitis B viral infection: a consequence of monocyte dysfunction? 733

Brief communications

Y. Watanabe & Y. Kawade: Suppressive effects of mouse interferon-β on gene expression occurring in concanavalin A-stimulated mouse spleen cells 739

N. Garcon, G. Gregoriadis, M. Taylor & J. Summerfield: Mannose-mediated targeted immunoadjuvant action of liposomes 743

Book reviews 747

Author and subject indexes for Volume 64 749